PATENT COOPERATION TREATY

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REC'D 0 1 FEB 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENDABOLITY

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FOR FURTH	ER ACTION See Form PCT/IPEA/416				
International application No. International fili	ing date (day/month/year) Priority date (day/month/year)				
1					
PCT/SE2003/001919 10-12-20 International Patent Classification (IPC) or national classifi					
	Cation and in C				
See Supplemental Box					
Applicant					
Telefonaktiebolaget L M Ericss	son (publ) et al				
This report is the international preliminary examination Authority under Article 35 and transmitted to the action.	ation report, established by this International Preliminary Examining applicant according to Article 36.				
2. This REPORT consists of a total of 4	sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, co	omprising:				
	national Bureau) a total of sheets, as follows:				
	ns and/or drawings which have been amended and are the basis of this report				
and/or sheets containing rectified Administrative Instructions).	fications authorized by this Authority (see Rule 70.16 and Section 607 of the				
sheets which supersede earlies	r sheets, but which this Authority considers contain an amendment that goes				
beyond the disclosure in the in Supplemental Box.	nternational application as filed, as indicated in item 4 of Box No. I and the				
<u> </u>) (() 1 - 5 () - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
b (sent to the International Bureau only	y) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic				
form only, as indicated in the Suppler	mental Box Relating to Sequence Listing (see Section 802 of the				
Administrative Instructions).					
4. This report contains indications relating to the following	lowing items:				
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invent	ion				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand	Date of completion of this report				
12-05-2005	26-01-2006				
Name and mailing address of the IPEA/SE	Authorized officer				
Patent- och registreringsverket Box 5055					
S-102 42 STOCKHOLM	Sara Thulin /LR				
Facsimile No. +46 8 667 72 88	Telephone No. +46 8 782 25 00				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

S	upi	ole	em	en	tal	Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

H03K 5/00 (2006.01) H03B 19/00 (2006.01)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

Box	No. I	Basis of the report	
1.	With r	egard to the language, this report is based on:	
	\boxtimes	the international application in the language in which it was filed	
		a translation of the international application into which is the language of a translation furnished for the purposes of:	· · · · · · · · · · · · · · · · · · ·
		international search (Rules 12.3(a) and 23.1(b))	
		publication of the international application (Rule 12.4(a))	
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
2.	furnis	regard to the elements of the international application, this report is based on (rehed to the receiving Office in response to an invitation under Article 14 are referred to the new this report):	eplacement sheets which have been to in this report as "originally filed"
	\boxtimes	the international application as originally filed/furnished	•
		the description:	i
		pages	as originally filed/furnished
		pages* received by this Authority on	
		the claims:	an anisimally filed/formished
		pages as amended (together v	as originally filed/furnished
			with they statement, under 11 total 12
1		1 0	
	П	the drawings:	
	ш	pages	as originally filed/furnished
		pages* received by this Authority on	
		pages* received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sec	quence Listing.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
İ		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this made, since they have been considered to go beyond the disclosure as filed, as ind 70.2(c)).	report and listed below had not been icated in the Supplemental Box (Rule
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
*	If ite	m 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001919

citations and explanat	ions supporti	ng such statement	
. Statement			
Novelty (N)	Claims	1-14	YE
	Claims		NO.
Inventive step (IS)	Claims	1-14	YI
	Claims	100	NO
Industrial applicability (IA)	Claims	1-14	Y
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5786715 A
D2: US 6229358 B1
D3: US 6150855 A
D4: US 6147525 A
D5: US 5475322 A

The cited documents represent the general state of the art.

The invention defined in claims 1-14 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed device for multiplying the pulse frequency of a signal in the form of a pulse train and method for multiplying the pulse frequency of a signal in the form of a pulse train. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-14 is novel and is considered to involve an inventive step. The invention is industrially applicable.